

The Distribution of Cohesive Objects in the Universe

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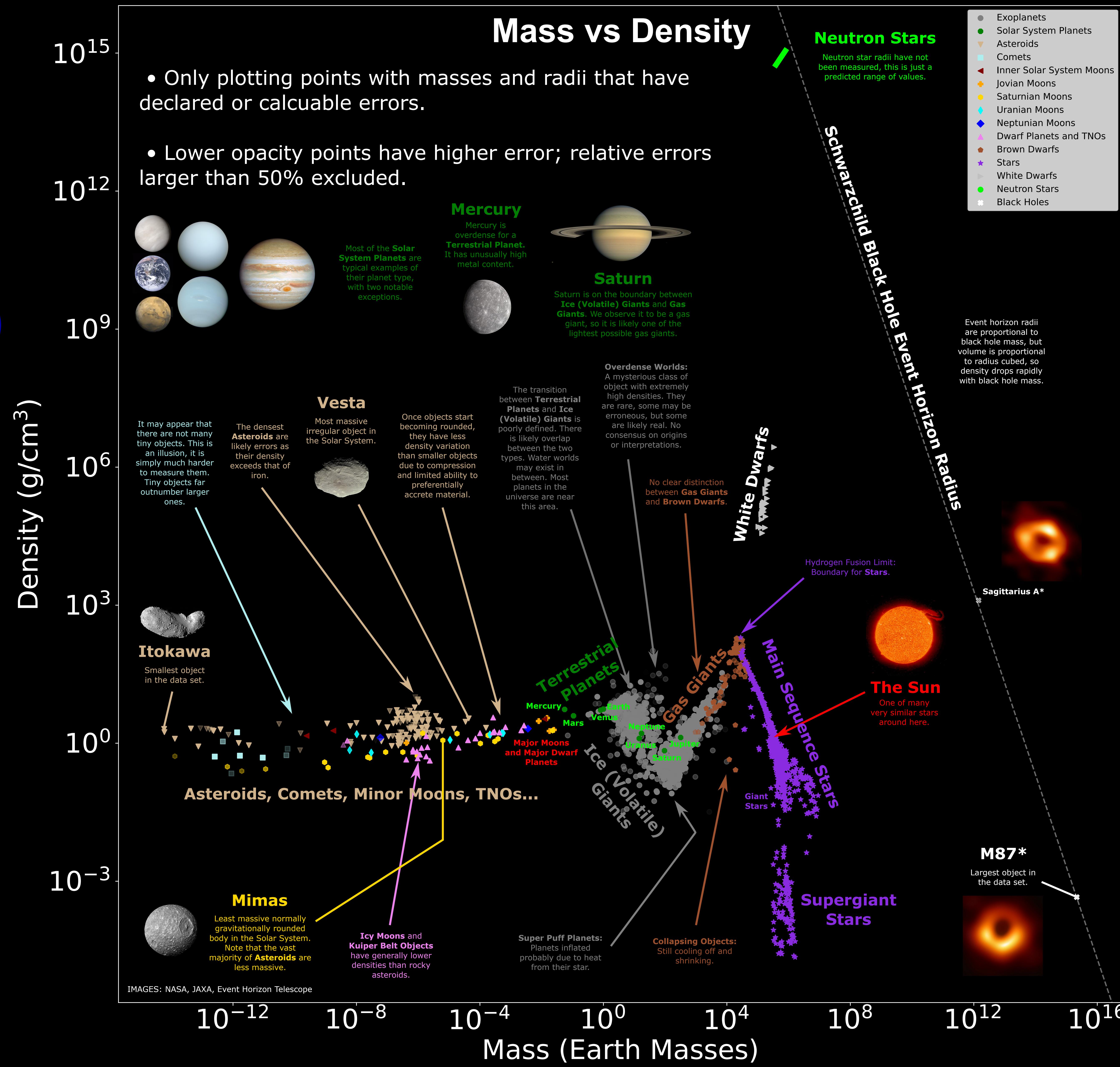


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Background

- Many astronomical objects (asteroids, planets, stars, black holes, etc.) have well-measured masses and sizes, which allow their density and surface gravity to be computed.
- Different types of objects are usually studied in isolation, but new data sets allow trends across all these objects to be documented.
- A mass vs density plot clearly shows most of the major relations.

Major sources include: NASA Planetary Physical Parameters, NASA Exoplanet Archive, DEBCat Catalogue, Carry 2012 "Density of Asteroids", and Grieves et al. 2021 "Populating the Brown Dwarf and Stellar Boundary."



Alternative Views

